



PCT10

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/089,500

DATE: 04/17/2002
 TIME: 12:14:30

Input Set : A:\sequence listing.txt
 Output Set: N:\CRF3\04172002\J089500.raw

ENTERED

5 <110> APPLICANT: KYOWA HAKKO KOGYO CO., LTD
 7 <120> TITLE OF INVENTION: Humanized anti-GD3 antibody and it's cytokine conjugate
 9 <130> FILE REFERENCE: 11239W01
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/089,500
 C--> 12 <141> CURRENT FILING DATE: 2002-03-29
 14 <150> PRIOR APPLICATION NUMBER: H11-278291
 15 <151> PRIOR FILING DATE: 1999-09-30
 17 <160> NUMBER OF SEQ ID NOS: 57
 19 <170> SOFTWARE: PatentIn Ver. 2.0
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 138
 24 <212> TYPE: PRT
 25 <213> ORGANISM: Mus musculus
 27 <400> SEQUENCE: 1
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 29 -19 -15 -10 -5
 31 Val Gln Cys Glu Val Thr Leu Val Glu Ser Gly Gly Asp Phe Val Lys
 32 -1 1 5 10
 34 Pro Gly Gly Ser Leu Lys Val Ser Cys Ala Ala Ser Gly Phe Ala Phe
 35 15 20 25
 37 Ser His Tyr Ala Met Ser Trp Val Arg Gln Thr Pro Ala Lys Arg Leu
 38 30 35 40 45
 40 Glu Trp Val Ala Tyr Ile Ser Ser Gly Gly Ser Gly Thr Tyr Tyr Ser
 41 50 55 60
 43 Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn
 44 65 70 75
 46 Thr Leu Tyr Leu Gln Met Arg Ser Leu Arg Ser Glu Asp Ser Ala Met
 47 80 85 90
 49 Tyr Phe Cys Thr Arg Val Lys Leu Gly Thr Tyr Tyr Phe Asp Ser Trp
 50 95 100 105
 52 Gly Gln Gly Thr Thr Leu Thr Val Ser Ser
 53 110 115
 57 <210> SEQ ID NO: 2
 58 <211> LENGTH: 128
 59 <212> TYPE: PRT
 60 <213> ORGANISM: Mus musculus
 62 <400> SEQUENCE: 2
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 64 -20 -15 -10 -5
 66 Gly Thr Arg Cys Asp Ile Gln Met Thr Gln Thr Ala Ser Ser Leu Pro
 67 -1 1 5 10
 69 Ala Ser Leu Gly Asp Arg Val Thr Ile Ser Cys Ser Ala Ser Gln Asp
 70 15 20 25

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72 Ile Ser Asn Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Asp Gly Thr Val
73 30 35 40
75 Lys Leu Leu Ile Phe Tyr Ser Ser Asn Leu His Ser Gly Val Pr, Ser
76 45 50 55 60
78 Arg Phe Ser Gly Gly Ser Gly Thr Asp Tyr Ser Leu Thr Ile Ser
79 65 70 75
81 Asn Leu Glu Pro Glu Asp Ile Ala Thr Tyr Phe Cys His Gln Tyr Se.
82 80 85 90
84 Lys Leu Pro Trp Thr Phe Gly Gly Thr Lys Leu Glu Ile Lys Arg
85 95 100 105
89 <210> SEQ ID NO: 3
90 <211> LENGTH: 5
91 <212> TYPE: PRT
92 <213> ORGANISM: Mus musculus
94 <400> SEQUENCE: 3
95 His Tyr Ala Met Ser
96 1 5
99 <210> SEQ ID NO: 4
100 <211> LENGTH: 17
101 <212> TYPE: PRT
102 <213> ORGANISM: Mus musculus
104 <400> SEQUENCE: 4
105 Tyr Ile Ser Ser Gly Gly Ser Gly Thr Tyr Tyr Ser Asp Ser Val Lys Gly
106 1 5 10 15
109 <210> SEQ ID NO: 5
110 <211> LENGTH: 10
111 <212> TYPE: PRT
112 <213> ORGANISM: Mus musculus
114 <400> SEQUENCE: 5
115 Val Lys Leu Gly Thr Tyr Tyr Phe Asp Ser
116 1 5 10
119 <210> SEQ ID NO: 6
120 <211> LENGTH: 11
121 <212> TYPE: PRT
122 <213> ORGANISM: Mus musculus
124 <400> SEQUENCE: 6
125 Ser Ala Ser Gln Asp Ile Ser Asn Tyr Leu Asn
126 1 5 10
129 <210> SEQ ID NO: 7
130 <211> LENGTH: 7
131 <212> TYPE: PRT
132 <213> ORGANISM: Mus musculus
134 <400> SEQUENCE: 7
135 Tyr Ser Ser Asn Leu His Ser
136 1 5
139 <210> SEQ ID NO: 8
140 <211> LENGTH: 9
141 <212> TYPE: PRT
142 <213> ORGANISM: Mus musculus

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144 <400> SEQUENCE: 8
145 His Gln Tyr Ser Lys Leu Pro Trp Thr
146 1 5
150 <210> SEQ ID NO: 9
151 <211> LENGTH: 119
152 <212> TYPE: PRT
153 <213> ORGANISM: Artificial Sequence
155 <220> FEATURE:
156 <223> OTHER INFORMATION: Description of Artificial Sequence:synthetic protein
158 <400> SEQUENCE: 9
159 Glu Val Gln Leu Val Glu Ser Gly Gly Asp Phe Val Gln Pro Gly Gly
160 1 5 10 15
162 Ser Leu Arg Val Ser Cys Ala Ala Ser Gly Phe Ala Phe Ser His Tyr
163 20 25 30
165 Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
166 35 40 45
168 Ala Tyr Ile Ser Ser Gly Gly Ser Gly Thr Tyr Tyr Ser Asp Ser Val
169 50 55 60
171 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
172 65 70 75 80
174 Leu Gln Met Arg Ser Leu Arg Ala Glu Asp Ser Ala Val Tyr Phe Cys
175 85 90 95
177 Thr Arg Val Lys Leu Gly Thr Tyr Tyr Phe Asp Ser Trp Gly Gln Gly
178 100 105 110
180 Thr Leu Leu Thr Val Ser Ser
181 115
185 <210> SEQ ID NO: 10
186 <211> LENGTH: 108
187 <212> TYPE: PRT
188 <213> ORGANISM: Artificial Sequence
190 <220> FEATURE:
191 <223> OTHER INFORMATION: Description of Artificial Sequence:synthetic protein
193 <400> SEQUENCE: 10
194 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
195 1 5 10 15
197 Asp Arg Val Thr Ile Thr Cys Ser Ala Ser Gln Asp Ile Ser Asn Tyr
198 20 25 30
200 Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
201 35 40 45
203 Phe Tyr Ser Ser Asn Leu His Ser Gly Val Pro Ser Arg Phe Ser Gly
204 50 55 60
206 Gly Gly Ser Gly Thr Asp Tyr Thr Leu Thr Ile Ser Ser Leu Gln Pro
207 65 70 75 80
209 Glu Asp Phe Ala Thr Tyr Tyr Cys His Gln Tyr Ser Lys Leu Pro Trp
210 85 90 95
212 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
213 100 105
217 <210> SEQ ID NO: 11
218 <211> LENGTH: 95

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Input Set : A:\sequence listing.txt
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219 <212> TYPE: DNA
220 <213> ORGANISM: Artificial Sequence
222 <220> FEATURE:
223 <223> OTHER INFORMATION: Description of Artificial Sequence:synthetic DNA
225 <400> SEQUENCE: 11
226 caggaaacag ctatgacgcg gccgccacca tggagttgg gctcagctgg cttttcttg 60
227 tcctgttt caaagggtt cagtgtgagg tgtag 95
230 <210> SEQ ID NO: 12
231 <211> LENGTH: 97
232 <212> TYPE: DNA
233 <213> ORGANISM: Artificial Sequence
235 <220> FEATURE:
236 <223> OTHER INFORMATION: Description of Artificial Sequence:synthetic DNA
238 <400> SEQUENCE: 12
239 aaagcgaatc cagaggctgc acaggagact ctcagagacc ccccccggctg tacaaagtct 60
240 ccccccagact ccaccagctg cacctcacac tgaacac 97
243 <210> SEQ ID NO: 13
244 <211> LENGTH: 98
245 <212> TYPE: DNA
246 <213> ORGANISM: Artificial Sequence
248 <220> FEATURE:
249 <223> OTHER INFORMATION: Description of Artificial Sequence:synthetic DNA
251 <400> SEQUENCE: 13
252 gcagccctgtc gattcgcttt cagtcattat gccatgtctt gggccggcca ggctccagg 60
253 aaggggctgg agtgggtggc ttatattatgt agtgggtgg 98
256 <210> SEQ ID NO: 14
257 <211> LENGTH: 97
258 <212> TYPE: DNA
259 <213> ORGANISM: Artificial Sequence
261 <220> FEATURE:
262 <223> OTHER INFORMATION: Description of Artificial Sequence:synthetic DNA
264 <400> SEQUENCE: 14
265 gatacagcgt gttcttggag ttatctctgg agatggtaa tctgcccttt acactgtctg 60
266 aataatgtt gccaactacca coactactaa tataaagc 97
270 <210> SEQ ID NO: 15
271 <211> LENGTH: 98
272 <212> TYPE: DNA
273 <213> ORGANISM: Artificial Sequence
275 <220> FEATURE:
276 <223> OTHER INFORMATION: Description of Artificial Sequence:synthetic DNA
278 <400> SEQUENCE: 15
279 ctccaagaac acgctgtatc tgcaaattgcg cagcctgaga gctgaggact cggctgtgt 60
280 tttctgtaca agatgttacac tggaaaccta ctactttg 98
283 <210> SEQ ID NO: 16
284 <211> LENGTH: 92
285 <212> TYPE: DNA
286 <213> ORGANISM: Artificial Sequence
288 <220> FEATURE:
289 <223> OTHER INFORMATION: Description of Artificial Sequence:synthetic DNA

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291 <400> SEQUENCE: 16
292 gttttcccg tcacgacggg cccttgggtgg aggctgagga gacggtgagc agggttccct 60
293 ggccccagga gtcaaagttag taggttccca gt 92
296 <210> SEQ ID NO: 17
297 <211> LENGTH: 94
298 <212> TYPE: DNA
299 <213> ORGANISM: Artificial Sequence
301 <220> FEATURE:
302 <223> OTHER INFORMATION: Description of Artificial Sequence:synthetic DNA
304 <400> SEQUENCE: 17
305 caggaaacag ctatgacgaa ttccaccatg atgtccctcg ctcaagttcct tggctccctg 60
306 ttgctctgtt ttcaaggtac cagatgtgac atcc 94
309 <210> SEQ ID NO: 18
310 <211> LENGTH: 87
311 <212> TYPE: DNA
312 <213> ORGANISM: Artificial Sequence
314 <220> FEATURE:
315 <223> OTHER INFORMATION: Description of Artificial Sequence:synthetic DNA
317 <400> SEQUENCE: 18
318 gcactacaag tgatggtgac tctgtctcct acagatgcag acagggagga tggagactgg 60
319 gtcatctgga tgtcacatct ggtacct 87
323 <210> SEQ ID NO: 19
324 <211> LENGTH: 89
325 <212> TYPE: DNA
326 <213> ORGANISM: Artificial Sequence
328 <220> FEATURE:
329 <223> OTHER INFORMATION: Description of Artificial Sequence:synthetic DNA
331 <400> SEQUENCE: 19
332 gtcaccatca cttgttagtgc aagtcaggac attagtaatt atttaaaactg gtatcagcag 60
333 aaaccaggaa aagcccctaa gtcctgtat 89
336 <210> SEQ ID NO: 20
337 <211> LENGTH: 89
338 <212> TYPE: DNA
339 <213> ORGANISM: Artificial Sequence
341 <220> FEATURE:
342 <223> OTHER INFORMATION: Description of Artificial Sequence:synthetic DNA
344 <400> SEQUENCE: 20
345 taatctgtcc cagatccacc gccgctgaac cttgatggga ccccccagtg taaatttgat 60
346 gagtaaaaaga tcaggagtt agggggctt 89
349 <210> SEQ ID NO: 21
350 <211> LENGTH: 92
351 <212> TYPE: DNA
352 <213> ORGANISM: Artificial Sequence
354 <220> FEATURE:
355 <223> OTHER INFORMATION: Description of Artificial Sequence:synthetic DNA
357 <400> SEQUENCE: 21
358 ggtggatctg ggacagatta tactctcacc atcagcagcc tgcagcctga agatttgca 60
359 acttattact gtcatacgta tagtaagctt cc 92
362 <210> SEQ ID NO: 22

VERIFICATION SUMMARY DATE: 04/17/2002
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Input Set : A:\sequence listing.txt
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L:11 M:270 C: Current Application Number differs, Replaced Application Number
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date